237

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Wolfson, A.

Oregon:- Wheeler, Crook, Deschutes,
Grant, Wallowa Cos.
June 9- July 16, 1938

Wolfson, A.
1938

eastern Oregon June 9 - July 16, 1938

Catalog of Specimens
#1 - 180

Wolfson
1938

Notes of explanation for Catalogue

1) It was not known until the close of the expedition that whatever is written in the catalogue should be on the specimen label. The labels are, therefore deficient when compared with the catalogue, but the only deficiency was in gonad size or condition of breeding. Information such as weight, measurements etc. was always placed on the label. Only several labels have the breeding condition noted, but the information is in the catalogue.

2) An arrow in the margin indicates that a location has been inserted and should not be overlooked. These locations were written at the time the specimens were collected but due to an oversight space was not reserved for them. I believe they are entirely legible.

3.) When a weight reads 18. g. It should really read 18.0. g. since all weights were taken to the nearest tenth of a gram. The labels on the specimens are similar to

Wolfson
1938

Notes of explanation for catalogue (Cont.)
the catalogue in this respect.

Wolfson
1938

Catalogue

11 mi. W, 7 mi. S Mitchell, Wheeler Co., Ore. Elev. 4850 ft.

June 9, 1938

✓1. ♀ Carpodacus casinii egg in oviduct 31.5 gms.
✓2. ♂ Myiochanes richardsonii testis 8mm. 14.5 gms.
✓3. ♂ Melospiza lincolnii testis 11mm. 16.9 gms.
✓4. ♂ Sitta ~~canadensis~~ carolinensis both testes black, 8mm., 16.4 gms.

June 10, 1938

✓5. ♂ Peranga ludoviciana testis 7mm. 30.1 g.
✓6. ♂ Sphyrapicus thyroideus testis 8mm., not black. 51.7 g
skeleton ✓7. ♂ Sitta canadensis testis 7mm. 9.1 g.

June 11, 1938

✓8. ♂ Cyanocitta stellari testis 4mm. 114.8 g.
✓9. ♂ Sitta carolinensis testis 4mm., one black, one white 15.9 g.
✓10. ♂ Peranga ludoviciana testis 12 mm. 27.4 g.

June 12, 1938

✓11. ♂ Glaucidium gnoma testis 5mm. 54.2 g.
✓12. ♀ Perisoreus canadensis 70.8 g.
✓13. ♂ Spizella passerina testis 6mm. 13. g.
✓14. ♀ Spizella passerina 14. g.

June 13, 1938

✓15. ♀ Perisoreus canadensis left ovary and small right ovary. 67.3 g.
skeleton ✓16. ♂ Sitta canadensis testis 5mm. 9.0 g
stand eggs 17. Hylocichla guttata

June 14, 1938

→ 6 mi. E, 3 mi N Wildcat Canyon, 4700 ft., Crook Co. ~~Wheeler Co.~~ Ore.
✓18. ♀ Melospiza melodia 19.4 g.
✓19. ♂ Melospiza melodia testis 9mm. 22.7 g.
→ 11 mi. W, 7 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.
✓20. ♂ Sitta pygmaea testis 5mm. 10.5 g.

Wolfson
1938

Catalogue

6 mi. E, 3 mi. N Wildcat Mt., 4700 ft., ~~Wheeler Co.~~ Crook Co., A.W. Ore.

June 14, (cont.)

21. ♂ Troglodytes aedon testis 7mm. 9.5 g.

11 mi. W., 7 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.

22. ♂ Sphyrapicus thyroideus testis 7mm. 54.1 g.
23. ♂ Spizella passerina testis 5mm. 12 g.

6 mi. E, 3 mi. N Wildcat Mt., 4700 ft., ~~Wheeler Co.~~ Crook Co., Ore.

24. ♀ Euphagus cyanocephalus ~~[illegible]~~ A.W. 51.5 g.

11 mi. W, 7 mi. S Mitchell, 4850 ft., Wheeler Co. Oregon.

25. ♂ Colaptes cafer, L. testis brood patch s shaped 15mm, 161.7 g.
26. ♂ Dryobates villosus testis 5mm. 74.4 g.
27. ♀ Dryobates villosus brood patch 62.2 g

June 15

11 mi. W, 7 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.

skeleton 28. ♂ Sitta canadensis testis 5mm. 9 g.
29. ♂ Dryobates villosus testis 5mm. 74.4
skeleton 30. ♀ Sitta canadensis 8 g.

June 16

6 mi. E, 3 mi. N Wildcat ~~Canyon~~ Mt., Crook Co., Ore. 4700 ft.

31. ♂ Cyanocitta stellari testis 10mm. 124.5 g.
32. ♀ Euphagus cyanocephalus brood patch 53.9 g.
33. ♂ ~~Spizella~~ Melospiza melodia testis 10mm. 19.5 g.
34. ♂ Euphagus cyanocephalus testis 15 mm., no. wt.
35. ♀ Euphagus cyanocephalus. 52.2

Wolfson
1938

Catalogue

6 mi. E, 3 mi. N Wildcat Mt., 4700 Ft., Crook Co., Ore.

June 16, (cont.)

coholic 36. Bufo

coholic 37. Hyla

4 mi. SW Prineville, 3300 Ft., Crook Co., Oregon.

June 18,

38. ♂ Dipodomys ordii 250-137-42-12 Wt. 54.1 g.
39. ♀ Peromyscus maniculatus 161-64-21-18.5 Wt. 25 g.
40. ♂ Peromyscus maniculatus 168-75-21-18.5 Wt. 21 g.

June 19,

41. ♀ Dipodomys ordii ♀ 240-132-40-12 Wt. 56 g.
42. ♀ Dipodomys ordii coll. by W. Russell 236-134-40-12 Wt. 48 g.
43. ♂ Dipodomys ordii coll. by W. Russell 243-143-41-12 Wt. 48.1 g.
44. ♀ Peromyscus maniculatus 173-75-20-19.5 8 emb. x 1 mm. 23.8 g.
45. ♀ Peromyscus maniculatus 170-75-21-12 21 g.
46. ♂ Sceloporus - From coloration and scales 4 g.
47. ♀ Sceloporus - From coloration and scales 5 g.

June 20,

48. ♀ Dipodomys ordii 241-134-38-12 3 emb. x 4 50.8 g.
49. ♂ Otocoris alpestris shot by D. Toppe testis 9 mm. 30.3 g.
50. ♀ Falco sparverius, thin on breast. Coll. by A.H.M. Grizzly Mt., 5000 Ft., Crook Co., Ore. grasshopper in stomach, 93.1 g.

4 mi SW Prineville, 3300 Ft., Crook Co., Ore.

51. ♂ Sceloporus - sex From coloration and scales (?)
52. ♂ Sceloporus - sex From coloration and scales (?)
53. ♂ Sceloporus - sex From coloration and scales (?)
54.

Wolfson
1938

Catalogue

Tumalo Creek, 11 mi. W Bend, 4700 Ft., Deschutes Co., Ore.

June 22, 1938

54. ♂ Cyanocitta stellari testis 8mm. Wt. 116g.
55. ♀ Oberholseria chlorura past breeding 26g.
56. ♀ Penthestes gambeli 11.4g.
57. ♂ Sphyrapicus thyroideus testis 5mm. 50.2g.
eleton 58. ♂ Sitta canadensis testis 5mm. 9g.

June 23, 1938

59. ♀ Eutamias 201-83-31-16 wt. 55.1g.
60. ♀ Callospermophilus 266-85-42-20 wt. 195g.
61. ♂ Callospermophilus 239-75-39-19 wt. 160g.
62. ♂ Penthestes gambeli testis 6mm. 11.8g.
63. ♂ Passerella iliaca testis 9mm. 30g.

June 24, 1938

64. ♂ Zapus 236-136-31-15 26.8g.
65. ♂ Peromyscus 159-67-19-17 18.2g.
4 emb x 3 in right horn only
66. ♀ Peromyscus 157-67-18-18 21.7g.

June 25, 1938

67. ♂ Thomomys 197-51-26-6 89.5g.
68 ♀ Thomomys 201-53-26-? 79.5g.
69. ♂ Passerella iliaca testis 9mm. 29.1g.

Tumalo Cr., 15 mi. W Bend, 6100 Ft., Deschutes Co., Ore.

June 26, 1938

70. ♀ Sorex 104-38-11-7 6.5g.
71. ♂ Peromyscus maniculatus 164-65-21-18 21.1g.
72. ♀ Peromyscus maniculatus 169-72-21-17 25.3g.
alcoholic 73 Rana
alcoholic 74 Rana

Wolfson
1938

Catalogue

Tumalo Cr., 15 mi. W Bend, 6100 ft, Deschutes Co., Oregon.

alcoholic 75. Bufo

June 27

76.	♂ Thomomys	215-56-30-7		Wt. 123.7 g.
77	♀ Thomomys	197-56-28-6	2 emb x 14	Wt 88.3 g.
78	♂ Zapus	225-129-33-16		26.5 g.
79.	♀ Thomomys	202-58-27-6		88 g.
80.	♀ Microtus mordax richardsoni	170-49-20-13	6 emb. x 20	45.5 g.
81.	♀ Microtus	249-79-22-14	7 emb x 25	103.9 g.
82.	♂ Peromyscus	166-78-20-19.5		19 g.
83.	♂ Microtus imm.	139-38-25-13		No wt.
84.	♀ Melospiza lincolnii	incubating		17.7 gms.
and eggs 85.	Melospiza lincolnii			

June 28

86.	♀ Microtus	229-69-28-16	8 emb. x 4	88 g.
87.	♀ Eutamias	209-94-33-15	4 emb x 24	55.3 g.
88.	♀ Microtus imm.	140-40-25-12		23.3 g.
89.	♂ Thomomys	218-57-28-7		122 g.

June 29

90.	♀ Sorex	100-41-14-8	6 emb. x 1	6.3 g.
91.	♀ Sorex palustris	150-66-19-4		13.8 g.
92.	♀ Microtus richardsoni	227-70-28-15	4 emb x 32	111 g.
93.	♀ " "	237-69-27-14		108.3
94	♂ " "	237-67-30-15		110.4
95.	♀ " "	236-70-29-14	5 emb x 20	111.5

Wolfson
1938

Catalogue

N.F.K. Malheur R., 21 mi. SE Prairie City, 5000 ft., Grant Co., Ore.

July 1, 1938

	96.	♂ Sitta carolinensis	testis 2mm. both black,	15.4g.
	97.	♂ " "	testis 2.5 mm.	15.g.
	98.	♀ Colaptes cafer		151.4 g.
	99.	♂ Dryobates villosus	testis 3 mm.	74.3g.
leton	100.	♂ Sitta canadensis	testis 5 mm.	10.2g.

July 2, 1938

	101.	♂ Melospiza melodia	testis 9mm.	21g.
	102.	♂ Vireo gilvus	testis 8 mm.	12.2g.
	103.	♂ Sitta carolinensis	testis 1.5mm.	16g.
	104.	♂ Vireo gilvus	testis 6mm.	11.7g.
	105.	♂ imm. Bubo virginianus	testis 5mm. unequal dev. Young Robin and Sciurid in stom.	1018.2g.

July 3, 1938

	106.	♂ Dendroica auduboni	testis 10mm.	12.7g.
	107.	♂ Vireo gilvus	testis 6mm.	12.g.
	108.	♂ Dendroica auduboni	testis 7mm.	11.7g.

July 4, 1938

leton	109.	♀ Perisoreus canadensis		65.2g.
leton	110.	♀ Certhia familiaris		7.6g.
eleton	111.	♂ " "	testis 7mm.	7.5g.
	112.	♂ Dendroica auduboni	testis 7mm.	11.1g.
	113.	♂ Hylocichla guttata	testis 11 mm.	27.9
	114.	♂ " "	testis 12mm.	29.2g.
Both with labels #116	115.	♀ Eutamias	225-95-31-16	54.8g.
	116.	♀ Eutamias	215-95-32-16	63.4g.
	117.	♀ Dryobates villosus		65.5g.

Wolfson
1938

Catalogue

N.FK.Malheur R., 21 mi. SE Prairie City, 5000 Ft., Grant Co., Oregon

July 5, 1938

118.	♂ Spizella passerina	testis 9mm.	13.2 g.
119.	♂ Certhia familiaris	testis 7mm.	7.6 g.
120.	♀ Picoides arcticus		72.7 g.
121.	♀ Dryobates villosus		60.8 g.

→ N.FK. Malheur R. 15 mi. E, 12 mi. S. Prairie City, 5100 ft., Baker Co., Ore.

July 6, 1938

122.	♂ Sciurus hudsonicus	306-105-50-~~30~~ 26	266.2 g.
123.	♂ Sciurus hudsonicus	337-133-54-26	261.0 g.
124.	♀ Melospiza melodia	laying, yolk in ~~ovary~~ ovary.	24.3 g.
125.	♂ Passerella iliaca	testis 9mm.	27.2 g.
126.	♀ Melospiza lincolnii		16.9 g.
127.	♀ Spizella passerina	(laying) egg in ovid.	15.2 g.
128.	♀ Dryobates villosus		66.3 g.
129.	♀ Melospiza lincolnii		17.0 g.

N.FK. Malheur R., 21 mi. SE Prairie City, 5000 Ft., Grant Co., Oregon.

July 7, 1938

130.	♀ Spizella passerina		14.1 g.
131.	♂ Spizella passerina	testis 9mm.	12.0 g.
132.	♂ Penthestes gambeli	testis 7mm.	10.8 g.
133.	♀ "	"	9.6 g.
134.	♂ Glaucidium gnoma	testis 4mm.	59.6 g.

16 mi. S, 3 mi. E Lostine, 5500 Ft., Wallowa Co., Ore.

July 9, 1938

135.	♂ Sphyrapicus varius	testis 3mm.	49.3 g.
136.	♂ Spizella passerina	testis 6mm.	12.4 g.
137	♂ Dendroica auduboni	testis 8mm.	13.2 g.

Wolfson
1938

Catalogue

16 mi. S, 3 mi. E Lostine, 5500 ft., Wallowa Co., Ore.

July 9, (cont.)

138.	♂ Vireo gilvus	testis 7mm.		10.5 g.
139.	♂ Vireo gilvus	testis 7mm.		10.4 g.
140.	♂ jv. Regolus satrapa	testis .5 mm.		6 g.
141.	♀ Sciurus	320 (A.W.) -110-50-26		327.8

July 10,

142.	♂ Clethrionomys	137-37-21-13		20.4 g.
143.	♀ "	153-41-20-14		33.5 g.
144.	♀ Microtus mordax	178-56-21-13		37.6 g.
145.	♀ " "	176-52-21-15	5 emb. x 3	40.2 g.
146.	♀ Zapus	232-132-31-15		28.9 g.
147.	♂ Eutamias	212-96-32-16		49.6 g.
148.	♂ Peromyscus	165-69-21-18		20.8 g.
149.	♂ Peromyscus	160-67-21-18		18.2 g.

July 11,

150.	♂ Clethrionomys	145-40-19-13		24.2 g.
151.	♀ Eutamias	205-90-32-15		62.1 g.
152.	♀ Peromyscus	171-71-21-18	5 emb. x 1	25.9 g.
153.	♀ Peromyscus	173-76-20-17	5 emb. x 1.5	23.5 g.
154.	♀ Lepus	463-?-131-80	5 emb x 120	1773.3 g.

→ 19 mi. S, 5 mi. E Lostine, 7000 ft., Wallowa Co., Ore.

July 12,

155.	♂ Certhia familiaris	testis 5 mm.		7.1 g.
156.	♂ Spizella passerina	testis 7 mm.		13.2 g.
157.	♀ Ochotona	154-10-26-18		73.7 g.

16 mi. S, 3 mi. E Lostine, 5500 ft., Wallowa Co., Ore.

July 13

158.	♂ Vireo gilvus	testis 6 mm.		11 g.

Wolfson
1938

Catalogue

16 mi. S, 3 mi. E Lostine, 5500 ft., Wallowa Co., Oregon.

July 13, (cont.)

159.	♂ Vireo gilvus	testis 7mm.		10.5 g.
160.	♂ Hylocichla ustulata	testis 12mm.		33.1 g.
161.	♂ Callospermophilus	264-95-39-21		183.1 g.
162.	♂ Sciurus	309-79-55-27		316.1 g.
163.	♀ Eutamias	212-95-32-16		51.1 g.

July 14

164.	♂ Clethrionomys	141-42-19-12		22.1 g.
165.	♀ "	138-36-19-14	4 emb. x 29.	33.5 g.
166.	♀ "	136-35-19-13		26.0 g.
167.	♂ "	141-40-19-13		25.0 g.
168.	♀ "	146-45-19-13	5 emb. x 15	34.3 g.
169.	♀ Thomomys	173-43-26-4.5	2 emb. x 7	75.5 g.
170.	♀ Thomomys	172-45-25-4		51.1 g.

July 15

171.	♂ Penthestes atracapillus	testis 5mm.		10.9 g.
172.	♀ Ochotona	208-28-30-22		166.0 g.
173.	♂ Dendroica auduboni	testis 7mm.		11.2 g.
174.	♂ " "	"	6 mm.	12.7 g.
175.	♂ Callospermophilus ~~♀ Penthestes gambeli~~	269-97-39-19		172.2 g. ~~9.9 g.~~
176.	♂ Callospermophilus	258-?-41-20		208.0 g.

July 16

177.	♀ Penthestes gambeli			9.9 g.
178.	♂ Spizella passerina	testis 8mm.		12.1 g.
179.	♀ " "			11.6 g.
180.	♂ Eutamias	197-88-30-17		46.4 g.

Wolfson, A.
1938

eastern Oregon June 9 - July 16, 1938

General account

Wolfson
1938

Berkeley to Ochoco National Forest
Wheeler County, Oregon. Elev. 4850'.

June 7, Left Berkeley from MVZ with Museum Reo truck and A. H. Miller's Ford. In party are: A. H. Miller, Ward Russell, Fred Test, Don Tappe, Paul Maslin, and myself. Drove through Woodland, Redding, and camped for the night a few miles S of Dunsmuir, California

June 8, Drove through Dunsmuir, Warden, Klamath Falls, Bend, to Prineville, Crook Co. Oregon. N of Warden saw a colony of Bank Swallows nesting in a pile of crushed rock used for road mending (see Bank Swallow for details) From Prineville we entered the Ochoco national forest and drove almost to the summit to the dirt road which leads to Marks Creek. Took this road and drove about 2 mi. and made camp. It is about 2 miles farther to Marks Creek on the road. Arrived in the evening about 7:30 p.m. The road is about 75 yds S of camp.

Wolfson
1938

11 mi. W, 7 mi. S Mitchell, Wheeler Co., Ore.
Elev. 4850' ft.

June 9, Camp is located in a clearing surrounded by yellow pines 75 ft. to 100 ft. in height. The ground cover consists of grasses and other small herbaceous plants; no shrubbery present, but dead logs of yellow pine scattered throughout the region. The slope is slight - about 5° - to the N. No grazing is evident in this immediate locality. The surrounding forest is open, not dense, with small grassy meadows where the pines are lacking. North about 100 yds there is a small stream (3-8 ft. wide) which drains Westward from the east. South about 200 yds. there is a low ridge which runs toward the East where there is a more distinct higher ridge. The main drainage appears to be North and West.

At 5:00 a.m. there was a heavy frost covering the vegetation, and there were no active signs of bird life, or other vertebrates

Wolfson
1938

11 mi. W, 7 mi S Mitchell, 4850 ft., Wheeler Co., Ore.

June 9 (cont.) around camp. At 6:00 a.m. Alden Miller and I started out East of Camp. The habitat type first encountered was similar to that of the camp vicinity and a Williamson Sapsucker was collected by Alden Miller. By this time several birds were heard singing or calling e.g. Cassin Purple Finch, Mountain Chickadee, Red-breasted Nuthatch, White-headed Woodpecker, Wood Pewee. We separated at this point and I swung down to the stream to the north about 100 yds. Scattered along the length of the stream were dense, small clumps of Alders and Amelanchier. In this habitat I collected a Lincoln Sparrow (Catalogue No. 3) and Wood Pewee (Catalogue No. 2) In a dead yellow pine in this locality (riparian) the Cassin Purple Finch was collected. Continuing eastward about 100 yds. I came into a dense stand of Larch, White Fir, and yellow

Walfson
1938

11 mi. W, 1 mi S Mitchell, 4850 ft., Wheeler Co., Ore.

une 9 (cont.)

pine. The Slender-billed Nuthatch was collected here. Also recognized in this habitat were: Red-breasted Nuthatch, Junco oreganus montanus Pine Siskins, and Mountain Chickadees. Started Westward back to camp and heard a Red-tailed Hawk screaming overhead. Also recognized: Wright Flycatcher, White-headed Woodpecker, Red-shafted Flicker, Western Tanager Chipping Sparrow, House Wren - all on the way back near the stream and in the surrounding forest of yellow pines.

une 10

June 10

Started out East of camp at about 7:00 a.m. with A.H.M. and W.R. to examine a Lincoln Sparrow nest in the grass beside the stream North of camp. The nest and the five eggs were collected. Continuing along the south side of the stream I recognized several Wood Pewees in the clumps of Alder, Quaking Aspen

Wolfson
1938

11 mi. W, 7 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.

June 10 (cont.) and Ouzel. The Red-tailed Hawk was heard again. Proceeded due south to the ridges and forest of yellow pine, larch, and white fir in a fairly open stand, and then continued eastward. Found a nest of J. o. montanus with four young about two days ~~on~~ old and possibly younger. Little farther on I began to imitate a Pygmy Owl and rapidly attracted Mountain Chickadees, Red-breasted Nuthatches, Wright Flycatcher. One chickadee came within 3 ft. of my head and was evidently looking for the owl. By repeating the call in a distant location, the same response was evoked and attracted also: Western Tanager, Pine Siskin. This seems to indicate that Pygmy Owls are in the region. The Red-breasted Nuthatches and Mountain Chickadees appeared most

Nelson
1938

11 mi. W, 7 mi. S Mitchell, +850 ft., Wheeler Co., Ore.

e 10 (cont.) concerned and were most numerous. I collected a Williamson Sapsucker, Red-breasted Nuthatch, and Western Tanager in a forest stand similar to that mentioned above. Seen or recognized during the morning were (not mentioned in account on June 9) Western Robin, Hermit Thrush. The other birds, seen yesterday, were present and as numerous. (Many other species were encountered, but were not identified. All birds listed are the only ones recognized).

June 11 Started out W of camp at about 6:00 a.m. Followed the stream to a large meadow. The vegetation here is grass in small tufts, a yellow composite, Stellaria, larkspur, false hellebore, ranging in height from several inches to 2½ ft. It is moist near the stream and the vegetation covers the ground almost completely. Along the stream, scattered, were a few Amelanchier and Alder. Several

Wolfson
1938

me 11
cont.)

11 mi. W, 7 miles S Mitchell, 4850 ft., Wheeler Co., Ore.

Chipping Sparrows were seen here. Left the stream region and meadow and continued westward into forest (same type as previously described.) Parts of this were heavily grazed and in these parts there was no ground cover. There were rocks in several places and amongst these was seen an Cutamias. Continuing to the W I came on to a ridge which ran N and S, and swung around to the east. Going down the E slope I noticed a large stand of dense, young yellow pine - a habitat unlike any yet seen. A pair of Juncos and Slender-billed Nuthatch were observed here. Continued eastward to camp, again crossing the meadow and streamlet. Saw a House-wren entering a hole in a dead stump, possibly its nest.

Species recognized from 6:00 a.m. until 9:30 a.m.

Hairy Woodpecker - 2
Warbling Vireo - 1
Chipping Sparrow - 5

Wolfson
1938

11 mi. W, 1 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.

June 11 (cont.)

Pygmy Nuthatch - 3
Wood Pewee - 2
Western Robin - several
Red-tailed Hawk - 2
Western Tanager - 1
Cassin Purple Finch - several
Mountain Chickadee - 6
Stellar Jay - 2
Red-shafted Flicker - 1
House Wren - 2
Ruby-crowned Kinglet - 2
Brown Creeper - 1
Pacific Nighthawk - 1 (at night in camp)
Eutamias - 1

June 12 Left camp at 6:30 a.m. with A.H.M and drove about a mile toward Marks creek on the road N of camp. Stopped at the streambed and just as we arrived in this meadow region we flushed six Mule Deer. No males were seen. Possibly they had come down to drink. During the course of the morning found three piles of deer droppings and two sets of deer tracks. Crossed the meadow and entered a dense forest containing larch, yellow pine, lodgepole pine, and douglas

Wolfson
1938

11 mi. W, 1 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.

June 12
(cont.)

and white fir. There were many dead trees forming a considerable amount of the ground cover. Under the trees the ground cover was pine needles and and dead limbs. In a few small places trees were lacking and the ground cover was grass, some Composites, a legume - covering the ground entirely. In these areas there was no shade, but in the dense forest cover, shaded and dark areas were numerous. The low brush was young yellow pines, lodgepole pines, and white firs. Following the scolding of a Ruby-crowned Kinglet a Pygmy Owl was seen and collected - the night before (June 11) it had been seen by A. H. M, shot, and wounded as evidenced by dried blood on some of the breast feathers. Found nearby some small pellets which contained a humerus and femur of a small mouse and the remains of an insect. It was probably

Wolfson
1938

ne 12
cont.)

11 mi. W, 7 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.
from a Pygmy Owl. In this same region were seen three Canada Jays and one was collected. A dead porcupine was also found. It had been dead for several months at least. The droppings of a carnivore were in the vicinity - wildcat or coyote, probably coyote - fur and bones (not of Porcupine) were in the feces. From this forest which is about 1 mile due W of camp I went E and come upon a large meadow surrounded by yellow pine, larch, fir forest. There were no trees in the meadow, but a continuous growth of grass and other herbaceous plants. Left the meadow, traveled thru the forest eastward over several ridges and another meadow and returned to camp at 10:30 a.m.

Recognized the following species:

Ruby-crowned Kinglet - several
Audubon Warbler - 1
Cassin Purple Finch - several
Chipping Sparrows - common

Wolfson
1938

une 12
(cont.)

11 mi. W, 1 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.

Stellar Jay - 1
Canada Jay - 3
Pygmy Owl - 1
Wood Pewee - 2
Red-shafted Flicker - 1
Brown Creeper - 1
Golden-crowned Kinglet - 1
Western Bluebird - 2
House Wren - 1
Red-tailed Hawks - 1
Sparrow Hawks - 1
Slender-billed Nuthatch - 1
Red-breasted Nuthatch - several
Pygmy Nuthatch - 1
Pine Siskins - 2
Hairy Woodpecker - 1
Williamson Sapsucker - 1
Western Tanager - several
Mountain Chickadee - common
Sparrow Hawks - 1
Western Robin - several
Junco - several
Ground Squirrel - 2
Chipmunks - 1
Mule Deer - 6

Wolfson
1938

11 mi. W, 7 mi. S Mitchell, 4850 ft., Wheeler Co., Ore.

June 13 - Left camp at 6:30 a.m. Went S through open forest previously decribed (see earlier notes, June 9, 10) About 1/4 mi. from camp entered dense moist forest of douglas fir, larch, yellow pine and white fir. Ground cover: grass, other herbaceous plants and dead timber of all sizes; many shaded spots and some open areas with direct sunlight. Found here were: Brown Creeper, Red-breasted Nuthatch, Hermit Thrush, Hairy Woodpecker, Mountain Chickadee, Western Tanager, Pine Siskin, Arctic Three-toed Woodpecker, Red Crossbill, Williamson Sapsucker. Continued S to open forest and found Hairy Woodpecker nest, and recognized White-headed Woodpecker and Ground Squirrel. Traveled W and reached dense forest similar to that described above. Canada Jays and Hermit Thrush nest were found in here. Went North and

Wolfson
1938

11 mi. W, 1 mi. S Mitchell, 4850 ft., Wheeler Co. Ore.

ne 13
(cont.)

East back to camp. Census of birds recognized: Brown Creeper 1; Red-breasted Nuthatch common; Hermit Thrush 2; Hairy Woodpecker several; Mountain Chickadee common; Western Tanager 4; Pine Siskin 1; Arctic Three Woodpecker 1; Red Crossbill 2; Williamson Sapsucker 1; White-headed Woodpecker 1; Canada Jay 2; Johnie Warbler 1; Ground Squirrel 1; Callospermophilus 1; Pileated Woodpecker 1; Coyote 1, heard early morning.

ne 14

Left camp at 6:30 and went W. Passed through open forest and over several ridges to large meadow. Observed: Chipping Sparrow common; collected Mountain Bluebird 2; House Wren 2; Flicker 1 (collected); Williamson Sapsucker 1, collected; Meadow lacked trees and no birds seen in it. On dirt slope near meadow saw Ground Squirrel and seven young entering a "burrow system". Eutamias was common in open

Wolfson
1938

June 14
(cont.)

11 mi. W, 1 mi. S Mitchell, 4850 ft., Wheeler Co. Ore-
forest and particularly in regions where there was much fallen (logs) timber. Continuing W entered dense fir forest - similar to those previously described and found: Stellar Jays 3; Canada Jay 2; Red-breasted Nuthatch common; Mountain Chickadee common; Oregon Juncos, several; Left fir forest passed ~~[illegible]~~ over several ridges and meadows and through open forest. On edge of meadow and in open forest collected Pygmy Nuthatch and 2 Hairy Woodpeckers. (insert) About 2 1/2 mi. SW of camp reached Marks Creek and traveled N to road leading back to camp. Marks Creek habitat was unlike any yet encountered. Stream is winding and on either side close-ly is grass about 10 inches high. Farther away from stream ground is drier and covered with low herbaceous growth. Willows and Quaking Aspens

(insert) ...ni E, 3 mi. Wildcat ...t. 4100 ft., ~~Wheeler~~ CROOK Co. ...egon.

Wolfson
1938

June 14
(cont.)

Crook Co.
6 mi. E, 3 mi. N Wildcat Mt., 4700 ft. ~~Wheeler Co.~~ Ore.
are numerous along the stream-bed and in several places are small flats of mud and small gravel. On these flats 3 Spotted Sandpipers were observed. Other birds seen in this habitat were: Song Sparrows several, 2 collected; Flicker, common; Brewer Blackbird 4; 1 collected; Valley Quail 1; House Wren 2, 1 collected; Mountain Bluebird 2; Red-tailed Hawk 3; Hairy Woodpecker, several. A Pygmy Nuthatch was collected in the open forest habitat, before this locality was reached. Along the road on the way back to camp were seen Citellus, several; Eutamias common. During the course of the morning several piles of deer droppings were seen and tracks were numerous near the stream-bed.

June 15
11 mi. W, 9 mi. S Mitchell, 4850 ft. Wheeler Co. Oregon.
Left camp at 6:30 a.m. and traveled SW a few hundred yards to a fir forest of the type previously

Wolfson
1938

11 mi. W, 7 mi S Mitchell 4850 ft., Wheeler Co. Ore.

ne 15,
ont.)

described. Collected here: Hairy Woodpecker 1; Red-breasted Nuthatch 2. Also found here were: Mountain chickadees, several; Oregon Junco common; Williamson Sapsucker 1. Returned to camp at 8:00 a.m. and skinned birds the remainder of the day. Around camp the following birds were recognized: Calliope Hummingbird 1; Red Crossbill 1; White-headed Woodpecker 1; Yellow Warbler 1; Williamson Sapsucker 1; Red-naped Sapsucker 1.

6 mi E, 3 mi N Wildcat Mt., 4700 ft.
Crook Co., Oregon.

ne 16

Returned to Marks Creek riparian habitat with fir and yellow pine forests on each side to E and W. From the junction, where Marks Creek crossed the road (which ran N of camp) I covered the ~~road~~ area about 1 mi. downstream (This was the same region traversed as before.) Along the gravel flats on the sides of the creek were seen 3 Spotted Sandpipers. In the willows

Wolfson
1938

ne 16
(cont.)

6 mi E, 3 mi. N Wildcat Mt., 4700 ft., Crook Co., Ore.
on either side of the stream in most of the region were found: Song Sparrow common; Traill Flycatcher, common; Brewer Blackbird 5; Calliope Hummingbird 2; Yellow Warbler several; Steller Jay 2; Robin common; Hairy Woodpecker, several; Williamson Sapsucker 2; Western Bluebird 1; Flicker several; Valley Quail 2; House Wren 3, were seen in the woodland adjacent to the stream. Some places were marshy but no "distinct birds" were found here. Near the junction, in the moist grass near the stream were found a ~~Rana~~ Bufo and a Hyla. Returned to camp at 10:30 a.m. (started at 6:00) and heard around camp were several Evening Grosbeaks. In the evening about 8:30 P.M. went into meadow near camp to hunt for bats. Saw 2 but didn't collect any because couldn't get a good shot.

June 17

En route to new camp from: 11 mi. West, 7 mi. S Mitchell, 4850 ft., Wheeler Co. Oregon.

Broke camp at 10:15 a.m. and drove to Prineville. Arrived at noon.

Wolfson
1938

En route from 11 mi. W, 7 mi S Mitchell, 4850 ft.
Wheeler Co. Oregon to new camp

June 17
(cont.)

Ate lunch and then looked for a
camping location in the Juniper
belt. Looked for sometime. Finally,
took road 28 out of Prineville on
way to Redmond. About 3 miles out
on highway turned off on dirt road
to south about 1 mi. "Pulled off" road
about 60 yds to W and made camp at
3:30 p.m.

4 mi. SW Prineville, 3300 ft., Crooks Co., Ore.

3 young Black-billed Magpies
were collected by members of the
camp. A Sage Thrasher was heard
singing and a young Loggerhead
Shrike was seen in a Juniper.
The region surrounding camp is
essentially flat and completely
exposed, mountains being quite
distant. The trees are Juniper
completely, ranging in height
from 10 ft. to 40 ft. They are
scattered singly for the most
part and rarely is there a
clump of Junipers. The lateral

Wolfson
1938

ne 17
(cont.)

4 mi. SW Prineville, 3300 ft. Crook Co., Oregon

branches extend within 1 ft. of the ground in most cases. The soil is sandy but not a very loose sand as one might find on a desert lacking vegetation. The low growth consists of herbaceous and shrubby plants. The herbaceous growth is mainly grass, but found also are Composites, Mustard, and Horehound in abundance. This growth varies in height from a few inches to 18 inches. It does not cover the ground completely but is spotty, thereby leaving bare, sandy places in abundance. Not commonly, but in several regions there are rocks fairly deeply imbedded in the soil and few can be turned over. They are not in rock piles. The shrubby growth is almost entirely Artemesia and Chrysothamnus ranging in height from 6" to 36" inches. The shrubs may form small clumps, or be standing singly surrounded by the lower herbaceous growths; but in either

Wolfson
1938

4 mi. SW Prineville, 3300 ft., Crook Co., Oregon.

ne 17 (cont.)

case it is also spotty and not a complete covering for the ground surface. Thus, the habitat is a mixture in equal parts of: Juniper, herbaceous plants, shrubby growth and places lacking any vegetation. In some places rocks are present, and in some regions Junipers may be lacking. Donald Tappe and I set a trap line ~~E~~ S and W of camp. 100 traps were set about 20 yds. apart. The first part of the line - about 25 traps - was through a region containing rocks as described above. The remainder of the line was through the type of country described above lacking rocks but with Junipers. Bare places were present but small - a few feet square. For the most part the traps were placed under Junipers, Artemesia, and Chrysothamnus - none were placed in the open. The weather was cold and rainy and it rained during the night.

ne 18 Examined trap line and found that

Wolfson
1938

4 mi. SW Prineville, 3300 ft., Crook County, Ore.

ne 18, (cont.) we had caught: 30 Peromyscus maniculatus 11 of which were immature being mostly gray and lacking the yellow of the adults; 1 Peromyscus which did not look like maniculatus; 2 Sigmodonys ordii which were caught under Juniper trees. In the evening set a trap line to SE of camp - 75 traps set about 40 ft. apart. Habitat similar to that described for the region in general. This time an effort was made to set some traps in the open sandy regions with the hope of catching Microdipodops. The weather during the day was cloudy and it rained irregularly throughout the day. There was no rain at night.

ne 19, Examined trap line and had caught: 12 Peromyscus maniculatus, 8♂, 4♀; 1 Sigmodonys ordii under a Juniper where there were holes of this species. In the afternoon, at 3:30 p.m. left camp and walked about 1 mi. NE to a sink. There was no ground cover here except some dead, dried low herbaceous plant

Wolfson
1938

ne 19,
ont.)

4 mi. SW Prineville, 3300 ft., Crook Co., Oregon.
and scattered patches of Chrysothamnus. The soil here seemed drier and sandier than in the surrounding land. It was surrounded on the E, S, W, sides by shrubby growth as described above and lacked Junipers. On the N side was the Highway to Redmond, no. 28. On the W and S sides there was a ridge where the shrubby growth begins. This ridge slopes to SW and contains rocks abundantly; and several rock piles. In the rock piles were found two Sceloporus which don't ~~appear~~ look like S. occidentalis. The backs are streaked and there is a pinkish band, or irridescence, lateral to blue band on each side of midline. Some blue is lacking from one which appears to be a ♀. Mountain Bluebirds and Brewer Sparrows are common in this area. In the evening set 100 traps about 30 ft. apart entirely in the open sandy places and none were placed under any brush or cover in the sinks region. The

Wolfson
1938

ne 19,
(cont.)

ne 20.

4 mi SW Prineville, 3300 ft., Crooks Co., Ore.
line began on the W side and circled back to that side. This was done to get Microdipodops if possible in this open sandy region.
Collected specimens from trap line and had: 24 Peromyscus maniculatus 9 of which were immature; 2 Dipodomys ordii, both immature. Diffi-cult to understand why haven't caught Microdipodops or Perognathus. The dark upper side of the tails in Dipodomys was used as the character for immaturity. The adults are lighter. At 8:30 left camp and headed S for the lava cliffs near the crooked river. At the cliffs, which are about 2 1/2 mi. by air line S and slightly E of camp, were seen: Red-tailed Hawks, 3; Cliff Swallows 70; Violet-green Swallow 1; Turkey Vulture 2; Nighthawks 2. The Cliff Swallows were in a nesting colony at the top of the cliffs and the Violet-green Swallow was amongst them. The nest of the Red-tailed Hawks

Wolfson
1938

June 20,
(cont.)

4 mi. SW Prineville, 3300 ft., Crooks Co., Ore.
was found and it was 20 yds from the colony of cliff swallows. The cliffs vary in height from 20 ft. to 100 ft. and the slope varies from absolutely 90° to 60°. Below the cliffs was a steep sloping habitat of Junipers, Artemesia and bare sandy places. The region passed thru to reach the cliffs was similar in vegetation to the region around camp and previously described. In this habitat were seen: 3 Valley Quail; 1 Sage Sparrow; many Brewer Sparrows; 3 Red-Shafted Flickers; 1 Sparrow Hawk; several Mountain Bluebirds; 2 Sage Thrashers; 1 Chipping Sparrow. Returned to camp and while at camp heard a Bullocks Oriole about 12:30 p.m. At 3:30 p.m. Paul Maslin and I went to the ridge S and W of the sinks - the same region where I had previously caught a Sceloporus on yesterday. Caught 3 Sceloporus of same type again. In the evening A. H. Miller, Fred Test and myself

Wolfson
1938

4 mi. SW Prineville, 3300 ft., Crook Co., Ore.

ne 20, (Cont.) drove to a point on the cliffs about 3 mi. by air-line S of camp. I set 5 rat traps and 20 mouse traps among the rocks about 10-20 ft below the top of the cliffs. There was grass and dead wood present. Evidence of rats was droppings, urine, and nest material but none appeared fresh. Around the cliffs was seen: a hawk; 2 Turkey Vultures. While driving back to camp a Horned Owl was seen and collected by A.H.M.

June 21, Drove out to traps with F. Jest and had caught: 1 House Mouse; 4 Peromyscus maniculatus, 2 of which were immature. No rats were caught by F.T. or myself. Skinned a Sparrow Hawk (caught by A.H.M) in the morning and in the afternoon we broke camp.

En route to new camp near Bend in Cascades

Drove through Prineville to Bend and out toward century drive to Deschutes

Wolfson
1938

June 21, (cont.)

En route to Cascades near Bend National Forest about 18 mi. by road. Did not find suitable country with a meadow. Turned back to Bend and took road out toward Tumalo Lake. Entered Deschutes National Forest again and made camp at: Tumalo Creek, 11 mi. W. Bend, 4700 ft., Deschutes Co., Ore.

Tumalo Creek, 11 mi. W Bend, 4700 ft., Deschutes County, Ore.

June 22. Left camp at 6:30 and went E. Passed through heavy forest of yellow pine, lodgepole pine and some white fir. Dense underbrush of Ceanothus and Ribes and young conifers. Grass and other herbaceous plants e.g. Lupinus. Some cutting has been done of older trees and dead brush is abundant on ground. Saw in forest several Oregon Juncos. Left forest after few hundred yards and came into open chaparral of Ceanothus, where large yellow pines had been cut out and dead brush was common

Wolfson
1938

ne 22,
cont.)

Tumalo Cr., 11 mi. W Bend, 4700 ft, Deschutes Co., Ore.
on the ground. Collected a Green Tailed Towhee here and saw several others. They came readily to squeaking. Saw here also more: Hairy Woodpecker, several Calliospermophilus. Left chaparral and went into dense forest to S of Tumalo Creek. This is an old forest with much heavy under brush of Ceanothus, Ribes, and young conifers and dead timber. Collected here more: Williamson Sapsucker Mountain Chickadee, Red-breasted Nuthatch, and Stellar Jay. Returned to camp and recognized: Evening Grosbeaks 1; Brown Creeper 1; Calaveras Warbler several; Fox Sparrow 1.
In the evening set 20 traps in a marshy region immediately N of Tumalo Creek and about 300 yds. from camp. Traps were set about sixty feet apart in moist places. Left this marshy area and set 30 traps E of camp in the forest and chaparral. Traps set about 40 ft. apart.

Wolfson
1938

Tumalo Cr., 11 mi. W Bend, 4700 ft., Deschutes Co. Ore.

June 23 Examined trap line at 7:00 a.m. In the marshy area had caught 2 adult Peromyscus maniculatus. In the chaparral had caught 2 adults of same species and 1 juvenile. Returned to camp and went hunting in Ceanothus chaparral from 10-12 noon. Caught two Callospermophilus, 1 Eutamias, 1 Fox Sparrow, 1 Mt. Chickadee. Green-tailed Towhees were common and Ruby-crowned Kinglets were heard from the surrounding forest. Along the stream a Pileolated Warbler and Russet-backed Thrush were heard. A Garter Snake was also seen in the same habitat. In the evening set 50 traps about 50 ft. apart in the moist dense forest on S edge of Tumalo Creek about 200 yds. from camp.

June 24. Examined trap line at 6:30 a.m. and found 1 Zapus and 2 Peromyscus maniculatus. In the afternoon I set gopher traps. There were five sets. 1 near camp, and the remaining four along the road to the E

Wolfson
1938

Tumalo Creek, 11 mi. W Bend, 4100 ft., Deschutes Co., Ore.

ne 24 and not more than a half-mile from camp. Except for the set at camp, the locations were in the open or at the edge of an opening e.g. a road. Two sets were on S facing slopes. In the evening set 50 traps about 40' apart in the meadow habitat as before.

ne 25. Nothing caught in mouse traps set along the meadow. Difficult to explain paucity of small rodents. Fresh gopher workings scarce also. United States Government camp located at meadow - not in use now - but perhaps when was in use rodents were poisoned. Two gophers were caught out of the five sets made. Went hunting from 9:00-10:30 a.m. in the Ceanothus chaparral. Collected 1 Fox Sparrow. Recognized several Green-tailed Towhees. Broke camp at 2:30 p.m.

En route to new camp W of Bend.
Drove into Bend, and then about 20 mi. by road Westward. Reached Tumalo Creek and camped

Wolfson
1938

ne 25,
(cont.)

En route to new camp W of Bend on Creek where it intersects with road.

Tumalo Cr., 15 mi. W Bend, 6100 ft., Deschutes Co.
In the evening set out 40 traps along Tumalo Cr. and in a meadow about 1/4 mile S of camp. The area along the stream was lined with willows in several places, Picea where willows were lacking, or near the willows on the drier soil. The ground cover was grass and sedge almost completely with some Ranunculus. It was not in tufts but a more or less even, short cover. The meadow was C of the stream and there was a small stream running thru it. The ground was wet and boggy and covered completely with low (4"-8") grass and sedge. It was surrounded by a Picea, Lodgepole, and Fir forest with dead timber abundant on the ground and some dead logs in the meadow proper.

une 26. Examined the trap line and had caught: 1 Sorex on the side

Wolfson
1938

Tumalo Creek, 15 mi. W Bend, 6100 ft., Deschutes Co., Ore.

June 26 (cont.) of a dead log which "ran across" the meadow; and 2 P. maniculatus which were caught in the forest on the edge of the meadow. In the moist grass in the meadow were caught two Rana and 1 Bufo. In the afternoon made 8 gopher sets. 6 on the SW side of the stream, and 2 on the NE side. All were in meadows which were grass covered and none was farther than 50 yds from a stream. The soil was moist, bordering on wet. In the evening set 75 mouse traps and 5 rat traps along the S side of Tumalo creek in the wet meadows and low willow thickets. Several traps were also set in the bordering forest. Snow was present in several places at the edge and in the forest. 2 Rat traps were set in a meadow E of camp where fresh Microtus signs were seen.

June 27 Examined trap line and found: 1 young Microtus in a low willow thicket along the stream. Ground wet and grass covered

Wolfson
1938

Tumalo Cr., 15 mi. W Bend, 6100 ft Deschutes Co, Ore.

June 27 (cont.) 1 Zapus on the side of a log under a Picea about 5 ft. from the creek; ground moist. 2 Peromyscus, one of which is possibly not P. maniculatus. These were caught in the moist forest edge; 1 Microtus mordax, in a wet grassy bar on the stream edge where Spruces and Lodgepole Pine were growing. I examined the 2 rat traps in the meadow E of camp and had caught nothing. Just as I approached, however, I saw a Microtus go down its hole and therefore I left the traps baited. I returned at 1:00 p.m. and found a Microtus richardsoni. Examined the gopher sets and caught 3 gophers, all on the SW side of the stream. The other sets were left as they were. In the afternoon returned to examine gopher sets and several mouse traps which had been left set where recent signs of Microtus were found. Had caught a Lincoln Sparrow 3 inches from the nest on the edge of a willow thicket

Wolfson
1938

Tumalo Creek, 15 mi. W Bend, 6100 ft., Deschutes Co., Ore.

ne 27 (Cont.) The nest and eggs were collected. In the evening set 50 traps about 40 ft. apart along the creek on the NE side and some in a meadow E of the creek.

ne 28 Left camp at 5:30 a.m. and went to rock slides about 1/4 mile north of camp to try to get some Conies. Watched slides for hour and a half and did not see or hear a Coney. Walked back to camp thru Lodgepole Spruce, Hemlock forest and found: 1 Audubon Warbler; many Chickadees several Juncos; 5 Pine Siskins; 1 Flicker 3 Chickarees. After reached camp, went out on trap line and found: 1 immature Microtus amongst willows at edge of stream; 1 Microtus richardsoni under spruces at stream edge; 1 Eutamias canigenus amongst dead timber 50 yds from edge of stream. The gopher traps were examined and 1 more Thomomys was obtained on the SW side of stream in the open meadow. In the evening set 50 traps along meadow

Wolfram
1938

Tumalo Cr., 15 mi. W Bend; 6100 ft; Deschutes Co, Ore.

June 28, (cont.) at stream edge on SW side of stream set about 20 ft. apart amongst short grass and sedge and low willows: Caught 1 *Microtus richardsoni* in rat trap which was left at fresh workings this morning. Evidently caught during the day.

June 29 Examined trap line and found: 1 *Sorex* sp. caught in a wet willow thicket on the edge of a stream; 1 *Sorex palustris* caught beside a log amongst a wet, dense, short growth of sedge and grass at the edge of a small stream; 2 *Microtus richardsoni*, 1 caught beside a large log in the open near the stream's edge; low spared growth of grass present; the other caught in a moist low willow thicket at the stream's edge. Several sets of traps were left at places showing fresh signs, but where no mice had been caught. Returned at 7:00 p.m. and found 1 *Microtus richardsoni* in a willow thicket in a run toward the stream.

Wolfson
1938

ne 30

En route to new camp near Prairie City

Broke camp at 7:30 and went to Bend. Traveled from Bend to Prairie city thru John Day. Drove out of Prairie City to Malheur National Forest and made camp at: North Fork Malheur River, 21 mi. SE Prairie City, 5000 ft., Grant County, Oregon. Camp is less than 300 yds. from the Baker County line

July 1,

N. Fk. Malheur R., 21 mi. SE Prairie City, 5000 ft., Grant Co. Oregon

Left camp at 7:30 and walked S about 1/4 mile. Habitat: open forest yellow pine, 20'-80' tall, evidently mature forest. Ground cover of grass, Composites, and Carex (sedge). Little fallen timber. Ground Squirrels, Chipmunks, Callospermophilus, and Chickarees are common. Collected here were: Flicker, Slender-billed Nuthatch. Swung westward to ridge, along top of ridge, and then back to camp. Habitat: open forest mature yellow pine, with some larch mixed in. Ground

Wolfson
1938

ly 1,
(cont.)

N. Fk. Malheur R. 21 mi SE Prairie City, 5000 ft, Grant Co. Ore.
cover grass, Composites, Legumes, and sedge in a more or less even cover. In several places were some Ceanothus bushes but they were not a main part of the cover. No logging is in evidence. Dead brush is not excessive and forest is extremely open. Collected here were Hairy Woodpecker, Slender-billed Nuthatch, and Red-breasted Nuthatch. Recognized in this type of forest habitat were: Chipping Sparrow, several; Evening Grosbeaks; Audubon Warbler, several; Cassin's Purple Finch, several; Red-breasted Nuthatches, several; Mountain Chickadees, common; Western Robin, common; It was raining steadily throughout the morning and the activity among the birds was almost lacking.

July 2 Left camp at 6:30 a.m. and headed S thru yellow pine forest. Collected Slender-billed Nuthatch and imm. Pacific Horned Owl. Recognized in this habitat were. Mt. Chickadees, common; Rufous Hummingbird

Wolfson
1938

ly 2,
(cont.)

N. Fk. Malheur R., 21 mi SE Prairie City, 5000 ft., Grant Co., Ore.
lurid, 2; Red-breasted Nuthatch,
several; Western Robin, common;
Chipping Sparrow, common; Audubon
Warbler 2; Williamson Sapsucker 1;
Hairy Woodpecker 2; and Olive-
backed Thrush (?) 1. From this
habitat I went eastward to the
stream (N. Fk. Malheur River). The
habitat here is: Willows, Quaking Aspens,
and Alders in clumps along the stream.
On the sides of the stream a meadow
habitat; wet, tall grass, sedge and
false hellebore are most abundant
as an even ground cover. Dead
brush common. Collected here were:
2 Warbling Vireos and 1 Song
Sparrow. Recognized were: Tolmie
Warbler 1; Song Sparrow 1; and
Yellow Warbler (?) 1; Beaver workings
are fresh and tracks were seen.

July 3. Left camp at 6:45 a.m. and went S.
Hunted through forest and ~~and~~
then went Eastward toward
stream and riparian habitat.
In this habitat were collected
2 Audubon Warblers, and 1 Warbling

Wolfson
1938

N. Fk. Malheur R., 2 mi SE Prairie City, 5000 ft. Grants Co.

July 3 (cont.)

Vireo. Recognized in this habitat were: 1 Hermit Thrush; 1 Song Sparrow; 1 Lincoln Sparrow. In the forest were seen: 1 Williamson Sapsucker; several Oregon Juncos; 2 Red-shafted Flickers; 2 Hairy Woodpeckers; 1 Slender-billed Nuthatch; and several Red-breasted Nuthatches.

July 4

Left camp at 7:00 a.m. and went W. There is a ridge running almost N and S with a steep slope to the NE. The habitat is open forest of yellow pine type, but farther north I came ~~onto~~ out to a side canyon with a small stream which runs into the North Fork of the Malheur river. The forest here was a dense fir for the most part with a luxurious fern, moss, and alder growth near the stream. North of this canyon the forest was open and of yellow pine mainly, but along the crest of ridge and still farther north was a dense fir forest with yellow pine and larch and dry ground. Broken

Wolfson
1938

y 4,
(Cont.)

N. Flk. Malheur R., 21 mi. SE Prairie city, 5000 ft., Grant Co. Ore.
and dead timber was abundant. In the open forest habitat, I collected 1 Hairy Woodpecker, 2 Cutanias; Recognized in this habitat were: several Slender-billed Nuthatches; 3 Red-breasted Nuthatch; 20 Chickadees (Mountain); several Hairy Woodpeckers; 1 Stellar Jay; 40 Red Crossbills in two flocks flew overhead; 2 Red-shafted Flickers. In the dense forest composed mainly of fir with some yellow pine and larch, I collected 1 Canada Jay; 2 Hermit Thrushes; 2 Brown Creepers; 1 Audubon Warbler. Recognized were: several Brown Creepers; several Audubon Warblers; 1 Johnie Warbler; 1 Canada Jay; several Williamson Sapsuckers. In several places there were Ceanothus and Artemesia bushes, but no birds present in this cover which are normally characteristic of it e.g. Green-Tailed Towhee

July 5 Left camp at 6:45 and returned to above slope, ridge and forest habitat to get Canada Jays if possible

Wolfson
1938

July 5, cont.

N. Fk. Malheur R. 21 mi. SE Prairie City, 5000 ft, Grant Co., Ore.

I collected in the yellow pine forest habitat, 1 Arctic-Three-toed Woodpecker, 1 Hairy Woodpecker, 1 Chipping Sparrow. In the fir forest habitat collected 1 Brown Creeper. The birds seemed less numerous today, but there was no possible reason for this. Several Mountain Chickadees, Red-breasted Nuthatches, Audubon Warblers, Red-shafted Flickers, Chipping Sparrows and Wood Pewees were seen. In the evening bats flew over camp and 2 Silvery-haired Bats, and 1 Myotis were collected. Four Brown bats were collected by S. Jaspe in a meadow not far from camp. Bats had not been as numerous on any previous night. Several others were seen also.

→ N. Fk. Malheur R., 15 mi. E., 12 mi. S. Prairie City, 5100 ft. Baker Co.

July 6

Left camp at 6:30 with Alden Miller and traveled North on the road about 4 miles to a large wet meadow. The meadow was surrounded on all sides by forests of fir, yellow pine and lodgepole pine. In several

Wolfson
1938.

ly 6
cont.

N. Fk. Malheur R., 15 mi. E, 12 mi. S Prairie City, 5100 ft., Baker Co., Ore.

places in the meadow there were small clumps of firs and lodgepole pines. The vegetation of the meadow varied from ankle-high to knee-high and contained many flowering plants characteristic of wet meadows; Mints, Composites, grasses, sedges, Legumes. and Ranunculus. Rufous Hummingbirds and Calliope Hummingbirds were abundant and feeding on the flowers. Oregon Ground Squirrels and Columbian Ground Squirrels were abundant and not shy in the dry places in the meadow and where there was sparse vegetation and dead logs. In the region near the forest edge amongst the few willows were collected 1 Fox Sparrow and 1 Song Sparrow. In the more open moist grass where there were one or several scattered trees were collected 2 Lincoln Sparrows and 1 Chipping Sparrow. At the forest edge 1 Hairy Woodpecker and 2 Chickadees were collected. A flock of 50 Red Crossbills was seen

Wolfson
1938

ly 6
(cont.)

Mt. Malheur R., 15 mi. E, 12 mi. S, Prairie City, 5100 ft. Baker Co. Ore.

several times during the morning. Cassin Purple Finches were abundant and several Pine Siskins were seen in the flocks of Crossbills. The Crossbills were seen on the ground on two occasions where it was dry and hardly any vegetation: What they were doing is doubtful - feeding on vegetation or gathering pebbles? An interesting example of habitat study was the presence of several Brewer Sparrows in a patch of Artemisia about 1 acre in size at the dry NW corner of the meadow. They were singing. This was the only habitat of this type in the region!. There possibly should have been more Song Sparrows and Fox Sparrows but none were seen. 1 other Fox Sparrow was collected by A. H. Miller. Two Wood Pewees were seen on their nests - probably incubating. The abundance of the Hummingbirds and the Lincoln Sparrows was the outstanding feature of this meadow.

Wolfson
1938

N. Fk. Malheur R. 21 mi SE Prairie City, 5000 ft. Grant Co., Ore.

July 7 Left camp at 7:00 a.m. and hunted in the yellow pine forest to the S. Collected two Mountain Chickadees and 2 Clipping Sparrows. I then went to the dense fir forest to the south of Ellz Creek. Began to imitate a Pygmy Owl and soon one answered back. After 10 minutes of whistling the owl came within 30 yards of my position and I shot him. Re-turned to camp at 8:30 and skinned birds remainder of day.

July 8. Broke camp at 6:30 a.m. and started to Prairie City.

En route to Wallowa Mts.

Had difficulties with running out of gasoline and one flat tire and arrived at Prairie City at noon. Left Prairie City and drove thru Burns, Enterprise, and Lostine to Lostine River road. Drove out of Lostine 17.5 miles and camped at Shady Forest camp in the Wallowa National Forest. Arrived at 9:00 a.m. and made camp. Three

Wolfson
1938

En route to Wallowa Mts.

ly 8, (cont.) Snowshoe rabbits were seen off the road to camp from Lostine.

uly 9. 16 mi. S, 3 mi E Lostine, 5500 ft., Wallowa Co., Ore.

Camp is in a canyon which runs N and S. The Lostine River runs in the valley floor and the ridges of the canyon rise about 1500 to 2000 ft. The valley floor is several hundred yards wide from E to W and is forested for the most part. The dominant trees are the firs and included with them are Larch, Lodgepole Pine, Spruce, and Hemlock(?) Rocks (granitic) are common on the slopes and valley floor. They vary in size from a few inches to several feet. In several places landslides have occurred - due to snow - and these places are crowded with fallen trees and boulders. I left camp at 7:00 a.m. and headed south along the road. On a standing dead tree on the E slope a Red-naped Sapsucker was collected. Several small streams running

Wolfson
1938

16 mi S, 3 mi E Lostine, 5500 ft., Wallowa Co; Oregon

July 9,
(cont.)

down the slope have alders and maples on both sides. Grassy open places are present between patches of timber. 2 Warbling Vireos, 1 Chipping Sparrow, 1 Audubon Warbler were collected on the slope near a stream in the timber and alders. Many Olive-backed Thrushes were heard from the slope and dense fir forests bordering the river. Several Golden-crowned Kinglets were seen and 1 juvenal collected. 1 Ruby Crowned Kinglet was seen and several heard singing. At camp Red Crossbills and Pine Siskins are fairly common, the Crossbills being more sporadic in their appearance. 1 Chickaree was collected in the forest habitat. In

July 10

the evening two trap lines were set. One line ran for 100 yds beside a small stream in a meadow habitat. The 30 traps were not under brush but in the grass beside the stream. The stream was about 1 mile S of camp E of the road and on the lower E slope of the canyon, running to the W. From this location; crossed into

Wolfson
1938

16 mi S, 3 mi Lostine, 5500 ft., Wallowa Co., Ore.

ly 9, (cont.) forest W of the road and set a line about 1/4 mi. long running parallel to Lostine R. Habitat covered by the 55 traps was old forest of Fir, and Larch and Lodgepole pine. Several places were wet and mossy and had small pools present. Ground cover was pine needles where crown cover was dense and shaded the ground. Where light penetrated Fragaria and Thalictrum were commonest and other species were present but not identified (but not abundant).

Tuly 10. Examined trap-line at 7:00 a.m. and had caught the following. 1 Microtus montanus and 2 Peromyscus maniculatus in the first line beside the stream. In the second line in the forest were caught: 2 Clethrionomys, near dead timber in dense woods; 1 Lepus, near alders and willows near the Lostine R.; 1 Microtus montanus in the wet part of the line; 1 Eutamias; 1 adult Peromyscus maniculatus and 1 sub-adult.

Wolfson
1938

16 mi. S, 3 mi. E Lostine, 5500 ft., Wallowa Co., Oregon.

ly 10, (cont.) In the evening a trap line of 90 traps was set in the woods to the E of the road - raw for about 1½ mi. N and S, beginning near camp and running S. All sets were made for Clethrionomys. and Zapus.

ly 11. Examined trap line in the morning at 7:00. Caught 1 Eutamias; 2 Peromyscus and ~~1 Peromyscus~~ 1 Clethrionomys. Clethrionomys was caught in dense forest where there were fallen dead logs. After noon as I was learning camp to set some gopher traps saw a Snowshoe Rabbit sitting out in the open. Was afraid to move for fear of flushing it. Called to Ward Russell, who shot it. Looked for fresh gopher workings for three hours in the afternoon. Are scarce in the region. Made two sets; 1, 2 miles N of camp on the Lostine River in a wet meadow; 2, on the Lostine River 1 mile N of camp in a moist meadow. Set 6 rat traps in dense forest of firs with a low heavy underbrush of Ericaceous(?) plants and large granitic rocks. Workings

ly 11th.

Wolfson
1938

16 mi. S, 3 mi. E Lostine, 5500 ft. Wallowa Co., Ore.

ly 11, (Cont.) of Chickarees were common here. The plot was about 2 acres in size and was on the E "shore" of the Lostine River.

ly 12 19 mi. S, 5 mi. E Lostine, 7000 ft., Wallowa Co., Ore.

Left camp at 6:30 and took road to S and then took East Fork Trail, following East fork of Lostine River, to Lost Lake, about 4 miles by trail and road from camp. Several rock slides were seen along the way. These were on the trail and Conies were heard commonly. Spent several hours hunting them and collected only 1 imm(?) A juvenal was seen. It was no larger than three inches and I approached within 1 foot before it disappeared amongst the rocks. It uttered a high squeaky note. Near Lost Lake in the fir woods near the trail I collected 1 Brown Creeper and heard another one. 1 Chipping Sparrow was also collected. Cassin Purple Finches were common and similarly were the Pine Siskins. Several White-crowned

Wolfson
1938

ly 12,
(cont.)

19 mi. S, 5 mi. E Lostine; 7000 ft., Wallowa Co., Ore.
Sparrowhawk heard in the wet alpine meadow near Lost Lake.

16 mi. S, 3 mi. E Lostine; 5500 ft., Wallowa Co., Ore.
After returning to camp at 1:00 p.m. examined gopher sets and rat traps set yesterday. Nothing was in rat traps and they were left set. One gopher set was sprung and the gopher had been caught but taken by some predator - impossible to say which one. The set 2 mi. N of camp was unsprung and left set.

ly 13,
Left camp at 6:30 and traveled to East Fork trail. Hunted on the E slope amongst the willows, maples and alders and in the fir forest. In the willows 2 Warbling Vireos were collected. In the open forest an Olive-backed Thrush was collected 2 Ruby-crowned Kinglets were seen in a dense fir stand. Birds in this vicinity do not respond to the Pygmy Owl voice imitation which was used with success in other localities previously visited (not at this camp or nearby vicinity.)

Wolfson
1938

16 mi. S, 3 mi. E Lostine; 5500 ft.; Wallowa Co., Ore.

July 13, (cont.) 1 Callospermophilus, 1 Cliedkarree, 1 Eutamias were collected amongst the trees and shrubs in an open stand near the road. While watching a Warbling Vireo, a Weasel was seen. It was crawling stealthily 3 feet from me and did not notice me until after a few seconds. When it did, it immediately ran for cover. We were in the open amongst the rocks originally. In the evening left camp at 6:00 with Ward Russell to set mouse traps and gopher traps. We took the road to the S and took the Lostine trail to the bridge across the Lostine River near where the E and W forks meet. Near the bridge we set a gopher trap. Fresh mounds were present. We then crossed the bridge and went along the trail for about half a mile and entered the forest cover. It was a young second growth (?) of lodgepole pine with few trees over 30 ft. It was dense and fairly dark, the crown cover being open sporadically. The

Wolfson
1938

16 mi. S, 3 mi. E Lostine, 5500 ft., Wallowa Co., Ore.

July 13, (cont.) ground cover was pure needles almost exclusively with few herbaceous plants and growth, but dead logs, large and small, were abundant. A small stream ran thru one corner of the area. About 50 traps were set here, and about ½ mile was covered. We then returned to the bridge and started another trap line along the Lostine R. The line began a few hundred yards N of the bridge and ran about 1 mile to the S. The forest was of the type previously described, and part of the area was previously trapped (July 9). Three gopher sets were made, and about ~~#~~ 50 more traps were set along this line. It was not a continuous line but broken up three times with large distances over "poor" trapping areas. In the afternoon the rat traps and 1 remaining gopher set were examined nothing caught - all traps brought back to camp.

July 14. Left camp at 7:00 a.m. to examine mouse traps. Examined the 1st line and had caught 4 Cletrionomys. All were caught near or beside

Wolfson
1938

16 mi. S, 3 mi. E Lostine, 5500 ft. Wallowa Co., Ore.

ly 14, (cont.) fallen dead logs. Examined second line and found only 1 Clethrionomys near a dead log in a small pure stand of larch and ground cover of pine needles. Out of the 4 gopher sets, 2 gophers were caught. Returned to camp and in the afternoon examined remaining gopher sets - nothing caught - traps left.

ly 15. Left camp at 6:30 a.m. and walked S on the road toward the end of the road where the trails begin to E and W. About 1 mile from camp along the road, there were some willows amongst the firs and bordering on a small meadow. In this locality a Black-capped Chickadee was collected. At the time of shooting I did not realize that this was not a Mountain Chickadee which are fairly common in this vicinity. Continued along road, and then took trail along W fork of Lostine R. - called Lostine trail. Saw several Mt. Chickadees, 1 Warbling Vireo, 2 Red-breasted Nuthatches, 1 Ruby Crowned Kinglet in a lodge pole pine forest - a pure stand.

Wolfson
1938

16 mi S, 3 mi E Lostine; 5500 ft.; Wallowa Co.; Ore.

ly 15,
(cont.)

1 Audubon Warbler was collected in this habitat. About 1 mile along the trail, after climbing steadily and gradually upward, there is a fairly level stretch where the river flows slowly and there are patches of meadow habitat. Several rock slides meet the trail and conies were heard commonly. 4 were shot and 1 retrieved. 1 Audubon Warbler was collected in a stand of lodgepole pines bordering a small meadow on the "stream". Amongst the rocks which were common on this level area two Golden-mantled Ground Squirrels were collected. Returned to camp about noon and remained there until evening when I examined gopher sets again and found nothing. Traps were taken in.

July 16. Left camp at 6:30 a.m. and returned to location where had taken Black-capped Chickadee. Hunted for some time, but found none. A Mt. Chickadee was taken

Wolfson
1938

16 mi S, 3 mi E Lostine, 5500 ft, Wallowa Co., Ore.

ly 16. (cont) homeier. Hunted remainder of morning on East slope climbing almost to top. Reached zone of Ceanothus and looked for Fox Sparrows but found none - odd why none were seen. A Ruffed Grouse and 1 yg. one the hood she probably had were flushed in a dense patch of poplars. Adult acted as though she were injured. In the conifers near the road at the base of the slope two Chipping Sparrows and 1 Cutanias were collected.

En Route to Berkeley

ly 17 → Broke camp at about 6:30 a.m. and went to La Grande. Then to Umatilla by means of the highway at the Columbia River. Car trouble at Umatilla - lost 6 hours. Camped outside of Arlington for the night.

July 18 Broke "camp" at 5:00 a.m. - traveled thru Bend, Klamath Falls, Redding to Berkeley. Arrived at about 1:30 a.m. after covering about 600 miles that day.

Wolfson, A.
1938

eastern Oregon June 9 - July 16, 1938

Species accounts
Birds
Mammals

Wolfson
1938

Red-Tailed Hawk

June 20 4 mi. SW Prineville, 3300 ft., Crooks Co., Ore
Nest found amongst cliffs facing Crooked River near Prineville. Flat structure resting on outcropping of rocks. Made of large twigs and feathers present in abundance.
Young hawks flushed from nest. Was less than 30 yds from colony of nesting Cliff Swallows. Birds seen chasing hawks on one occasion, but when it perched they seemed to forget about it.

Wolfson
1938

Pacific Horned Owl

July 2, North Fork Malheur R., 21 mi. SE Prairie City, 5000 ft., Grant Co., Oregon. Immature bird collected and stomach contents contained: 1 young Robin and 1 young Sciurid about Callospermophilus size.

Wolfson
1938

Pygmy Owl

June 12, 11 mi. W, 7 mi. S Mitchell, Wheeler Co., Ore.
Elev. 4850 ft. Collected one male this morning. Found in dense forest, well shaded, of white fir, douglas fir, yellow pine, and lodgepole pine. Followed a scolding Ruby-crowned Kinglet and suddenly glimpsed this small stocky bird sitting quietly in larch. Approached within 15 ft. and shot-missed. Owl flew 25 ft. and perched again. Collected. A.H.M. had mounded this bird the evening before. No sounds were given. Coloration decidedly concealing especially in the dark dense tree clumps. Hadn't noticed the outline of the bird until a few seconds had passed. Some small pellets found in this region and apparently are of this species. Contained humerus and femur of small mouse and remains of an insect.

July 7, North Fork Malheur River, 21 mi. SE Prairie City, 5000 ft., Grant Co., Oregon.
Walked into dense fir forest near Elk Creek and on the edge of open

Wolfson
1938

Pygmy Owl (cont.)

ily 7 (cont.) North Fork Malheur R., 21 mi. SE Prairie City, 5000 ft., Grant Co., Ore.

yellow pine forest. Imitated call of this owl and after three or four notes I heard an answer, given at regular intervals of about 2-3 seconds. A clear unwistled note. He approached closely flying back and forth and calling at each new location: After 15 minutes he seemed more interested and flew to a tree overhead. Fired and missed. Owl remained close-by. I called again and this time he came into a yellow-pine about 60 ft. overhead. Collected. At one time, a trill note was given consisting of several of these unwistled notes all run together. In flight the body appears stocky and short, and the tail of medium length, about 1/2 the body or slightly less. The wings are rounded, and appear long and narrow in contrast to the body. Few wing beats were given and these were fairly rapid. In the stomach were the remains of a young thrush, probably just out of the nest.

Wolfson
1938

Flicker

June 20 4 mi SW Prineville, 3300 ft; Crook Co., Ore.
Remains of at least one bird found in and around a Red-tailed Hawks nest in the cliffs near Prineville on the Crooked River.

Wolfson
1938

Hairy Woodpecker

June 13 11 mi. W, 7 mi. S Mitchell, Wheeler Co., Oregon Elev. 4850 ft. ♀ entered nesting hole, and sounds heard from young within. Habitat was open forest of yellow pine, and white fir with a ground cover of grass and other herbaceous species. Hole was 20 ft. up in a yellow pine 15 ft in height and 28 inches in diameter about 4 ft. from ground Exposure to NE. Saw her leave nest. Flew to nearby tree (10 ft. away) and uttered a single, high-pitched note continually while I remained

Wolfson
1938

Cliff Swallows

June 20 — 4 mi SW Prineville, 3300 ft., Crook Co. Oregon

Colony of nesting birds on Cliffs facing Crooked River near Prineville. Nests of mud and placed on under surface on rock outcroppings. Nests were larger than mine. Climbed to one and reached in. Middle fingers barely touched young. Adults flew in close and were much concerned. About 70 birds in colony and 1 Violet-Green Swallow was seen amongst them. Whether it was nesting or not I do not know.

Wolfson
1938

Violet-green Swallow

June 20 4 mi. SW Prineville, 3300 ft., Crook Co., Ore.
1 bird seen among colony of nesting cliff swallows. See Cliff Swallows.

Wolfson
1938

Bank Swallow

June 8 — 1/4 mile N Warden, Klamath Co., Oregon:
Colony of swallows nesting in a pile of crushed rocks used for road mending or building. Pile was 12 feet high and all nesting holes were easily accessible. It was about 60 yds long in a NS direction and 30 yds W of the main highway. Several piles of larger rocks were at one end but were not used. There was vegetation of grass, sedges etc. on top of this pile and also gopher workings thereby indicating that the pile had been there for several ~~to~~ years or at least one. There were about 120 holes some of which were incomplete and evidently were found not suitable. Those occupied varied in their nests; some having eggs on bare surface, others on 1/4 deep base of dried grass and feathers. Two sets of fresh eggs,- about 1-2 days old - were collected
Holes exposed to W(?)

July 18 — Same location as above: Swallows still present - probably have young to be fed - did not examine holes again

Wolfson
1938

House Wren

June 11 — 11 mi. W, 7 mi. S Mitchell, Wheeler Co. Oregon, Elev. 4850 ft.. Pair seen around a dead yellow pine stump without barks about 15 ft. high. One bird seen entering the hole and both birds seemed much concerned when I approached Probably nesting; but no other evidence.

Wolfson
1938

June 13

Hermit Thrush

11 mi. W, 7 mi. S Mitchell, Wheeler Co., Oregon. Elev. 4850 ft. - ♀ flushed from nest when I stood 3 ft W of nest. Habitat: dense moist forest of larch, white fir and douglas fir on S slope (45°) of canyon - Was 20 yds. from running stream in bottom of canyon. Nest was in young, white fir 5 ft. tall and on S side of a yellow pine which was 28" inches in diameter at the same level. The nest was 18 inches from top of white fir. - placed against main stem, and exposure to SE, rested on lateral branches. Outside of sticks, and main part of nest built of dried grass. 4 blue eggs with streakings formed by feces were collected as well as the nest. Eggs about 24-36 hours old. Waited 15 minutes for ♀ but she did not return. No "voice" given when flushed

Wolfson
1938

Junco oreganus montanus
11 mi. W, 1 mi S Mitchell, Wheeler Co. Ore. 4850 ft

June 10 Flushed male and female from nest on ground. ♀ flew first to yellowpine 10' away and scolded. Then ♂ flew and responded similarly. Area was open; dominant tree was yellow pine with white fir and larch interspersed. Ground cover was grass and a legume - average height about 18 inches. Nest on a small dirt mound under a young white fir 12 inches tall. Exposure to N and E mainly but not distinctly so. Nest of twig, dried grass and on surface at the rim was dried lichen roots commonly found on the larches in this locality. There were 4 ~~yg~~ young in the nest - about 36 - 48 hours old. Flesh colored a dark pink, with two tufts of black down, one on crown and one on lower back.

June 13. Location as above. Three young seen - just out of nest. Tails about one-half inch long. Were in grass about 10 inches tall and almost continually uttered high pitched notes.

Wolfson
1938

Lincoln Sparrow

11 mi. W, 7 mi S Mitchell, Wheeler Co. Ore.

June 10. Elev. 4850 ft. One nest in grass about 8 inches tall, about 6 inches from part of stream flow - not main part. Set of 5 eggs - fresh - collected by A. H. M. Several birds seen in riparian habitat amongst willows and alders.

une 27 Tumalo Creek, 15 mi. W Bend, 6100 ft., Deschutes county, Oregon. ♀ caught in mouse trap about 3" from nest. Nest ~~among~~ near dwarf willows about 4' tall - right on water, but bottom of nest dry. 4 eggs about 1 week old. ♀ evidently incubating - was flushed twice previously

Wolfson
1938

Microtus richardsoni

June 28 Tumalo Cr., 15 mi. W Bend, 6100 ft., Deschutes Co., Oregon. Workings of this mouse are common in wet meadows where fallen timber is present or other types of cover, such as, Spruce trees at stream edge. More commonly runs are found under logs in extremely wet places. Holes found at end of runs may be full of water, and in one instance a mouse was seen to enter such a hole and disappear below the water! The runs are shallow and are completely visible unless they are under cover of logs or trees. The grass, sedge, Ranunculus and Liliaceous plants of the meadow are not tall enough to cover the runs. Cut grass, and leaves are found commonly in the runs and fresh workings are easily recognized. Traps set at night have failed to have this species in it by early next morning but traps left

Wolfson
1938

June 28
(cont.)

Microtus richardsoni

Tumalo Cr., 15 mi. W Bend, 6100 ft., Deschutes Co. Ore.

during the day have caught the mouse in two instances. Are they more diurnal than nocturnal? From stomach contents food seems to be green grass and leaves. Entrance to hole in one instance was enlarged and formed a pocket in the soil. It was "lined" on the bottom with grass and leaves. The runs do not appear to be actively constructed by cutting of grass, but appear to be formed passively due to repeated use and they are not always well defined except in the instances when they were under logs. No good evidence that the mouse takes the rolled oats bait. Traps when not placed in runs, but immediately on them, have failed to catch them. But when placed in runs directly have not failed. From way mice are caught in the traps evidence seems to

Wolfson
1938

Microtus richardsoni

Tumalo Cr., 15 mi. W Bend, 6100 ft., Deschutes Co, Ore.

point in the direction that they run into traps by accident.
Leaves in runs and holes are of Shooting Star (Liliaceae) and one other low herbaceous plant which is not in flower.

June 29. Location as above. 1 mouse caught in mouse trap had hair in its mouth. The first evidence of these mice taking the hair - caught during the night as one other mouse was. Two others caught during the day. Habitat same, but one instance was in low willows near stream - wet ground.